



TECHNICAL SPECIFICATIONS

DAS Antennas

Outdoor LPDA Dir Antenna (617-4200MHz), Public Safety
LAL617-4200NPS (N Female Connector)
LAL617-42004PS (4.3/10 Female Connector)

Liberty's antenna solutions are designed for DAS applications offering leading edge performance at an economical price.

OVERVIEW:

Liberty's outdoor, vertically polarized Log Periodic antenna is designed for demanding DAS antenna applications where high gain donor antennas are needed for off-air system configurations. With gain of 11dB in the high bands and a weather resistant Radome, this antenna is built to offer high quality signal for many years of service.

The antenna includes a pole mount bracket for deployments on roof tops attaching to infrastructure provided by others.



Log Periodic Dipole Antenna:
An ideal Donor antenna for
DAS deployments includes 10K
resistor for compatibility to
popular Public Safety systems

FEATURES:

- Excellent gain up to 11.5dBi @ 3300-4200MHz
- Competitive Low PIM performance
- White, Outdoor Radome of UV stabilized ABS plastic

COMES WITH

- Mounting bracket for pole dia $\leq 2"$
- Pigtail cable and connector (see table)

Electrical Specifications				
Frequency Range (MHz)	617-698	698-960	1710-2700	3300-4200
Gain (dBi)	8	9.5	11	11.5
VSWR	≤ 2.5	698-806 ≤ 2.0 806-960 ≤ 2.0	≤ 1.8	≤ 1.8
Polarization	Vertical			
PIM 3 rd Order, 2x20W (dBc)	≤ -153			
Front to Back Ratio (dB)	≥ 15			
Horizontal Beamwidth (degrees)	102	90	75	54
Vertical Beamwidth (degrees)	83	66	58	42
Input Impedance (Ohms)	50			
Max Input Power (Watts)	50			
Lightning Protection	DC Ground			

Ordering Information	L	A	XX	1234	-1234	XX	XX
	L=Liberty	A=Antenna	Series L=LPDA Y=Yagi PS=Panel SISO PM=Panel MIMO FS=Flat Omni SISO FM=Flat Omni MIMO DS=Dome Omni SISO DM=Dome Omni MIMO	Low Freq in MHz	High Freq in MHz	Female Connector 1 & 2 N=N Female 4=4.3/10 Female	Custom Alpha/ Num Code

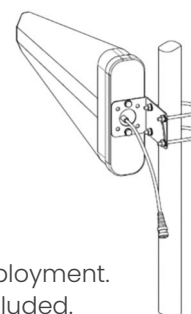
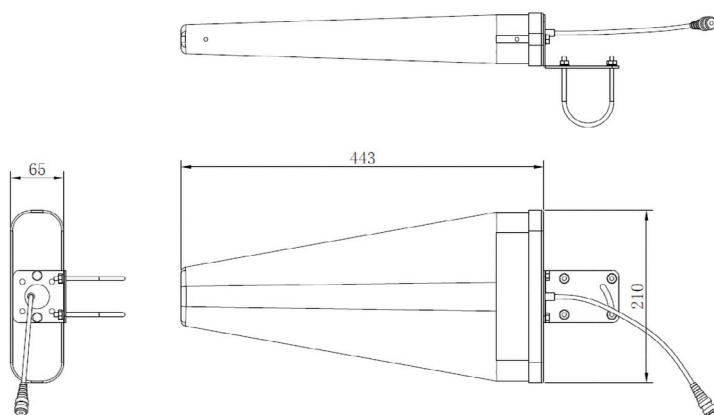
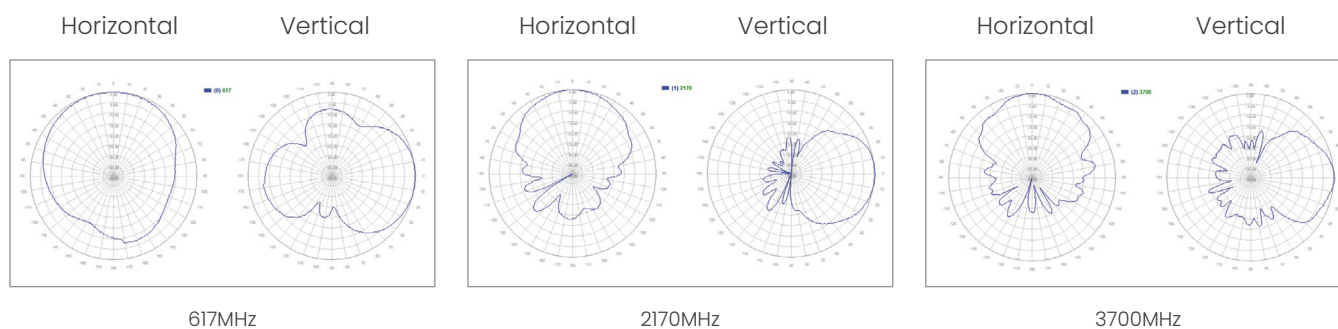
BENEFITS:

- High performing antenna is low profile form factor
- Dependable design for optimal system performance
- Engineered for roof top deployments to operate throughout the life of the deployment
- To be attached to existing infrastructure
- Easy installation

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Mechanical Specifications	
Connector	N Female (PN: LAL617-4200NPS), 4.3/10 Female (PN: LAL617-42004PS)
Pigtail cable type, length	141 Coax plenum rated cable, 300mm
Radome dimensions (mm)	443 x 210 x 65
Weight (kg)	0.5
Reflector material	Aluminum
Radome material and color	ABS (UV Stabilized), White (per RAL 9003)
Operating temperature	-40 to +65 C
Mounting Pole dia range (mm)	38 to 52

RADIATION PATTERNS



Typical pole mount deployment.
Pole mount bracket included.